



# **FIRE DEPARTMENT**

## **FIRE PREVENTION BUREAU**

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**Title:      Gates and Access Permit Application Guideline**

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**Scope:** Fire apparatus roads that are secured by automatic or manual gates shall comply with all regulations set forth by this department and Chapter (5) of The International Fire Code, 2003 edition. A construction permit shall be required for the installation of automatic gates.

**Purpose:** To provide standardized Mesquite Fire Department requirements relating to Fire Department Access.

**Requirements:** Electrically controlled gates shall be provided with an approved vehicle detector/receiver system. Gates shall be capable of being manually opened. In the event of power failure, the gates shall automatically move to the open position and remain open until power is restored.

Access gate systems shall be kept in an operable condition at all times. All repairs shall be in accordance with manufacturer's recommendations and original specifications. Inoperable gates placed out of service shall be secured in the open position until repaired.

Gates must begin the automatic opening sequence at a point no closer than 25 feet, measured from the center of gate to the public street.

With all new installations, the contractor shall provide (4) transmitters to The Mesquite Fire Department, Fire Prevention Bureau.

Access gate systems shall also be approved by The City of Mesquite Building Department.

**Specifications:**

1. Gates shall maintain an unobstructed open width of 20 feet, and an unobstructed height of 13 feet 6 inches.
2. Voltage- 12 volt D.C. (internally protected from over voltage (in excess of 24 volts) and voltage reversal.)
3. Current- 45 ma. max @ 13.5 volts
4. Transmitter- Crystal Controlled, operating @ 375 kHz, and pulse code modulated. (PCM)
5. Power Cable- Utilize two conductor twisted and shielded cable.
6. Coding- Codes shall transmit every 15 mille-seconds.

The emergency vehicle access code shall be the same as that used for the system safety loop. It is the installer's responsibility to insure that the code is the same for all installations within this jurisdiction.

A green colored reflective road marker shall be installed, centered in the lane at the start of the stacking lane. A second green marker shall be placed in the center of the loop directly in front of the gate.

**Plans must clearly indicate all of the following information:**

1. Show roadway, location on property, and gate dimensions.
2. Location of detection loop.
3. Manufacturers cut sheet showing current, radio frequency, power cable, and coding for system.
4. Fire lanes; curb markings and reflective marker placement.

Three sets of plans to scale shall be submitted prior to construction for approval.

**Inspection:** The contractor must schedule and conduct an operational test of the gate. This test shall be witnessed by this department for final acceptance. The contractor must have approved plans on site at the time of inspection. Inspections must be scheduled 24 hours in advance. (Overtime and same day inspections may be available for an additional fee.) All installations shall conform to this guideline and approved plans.

Should you have any questions, please call the Fire Prevention Bureau.